/33

DAY 21 **Find the Slope and Y-intercept for Each Equation**

1) $y = -\frac{7}{5}x - 3$ slope = $-7/5$ y-intercept = -3

2) $y = \frac{2}{3}x + 1$ slope = $2/3$ y-intercept = 1

3) $y = \frac{1}{4}x - 2$ slope = $1/4$ y-intercept = -2

4) $y = \frac{1}{5}x + 5$ slope = $1/5$ y-intercept = 5

/4

5) $-7x + 2y = 8$ slope = $7/2$ y-intercept = 4

$2y = 8 + 7x$

$y = 4 + \frac{7}{2}x$

6) $x + 3y = 3$ slope = $-1/3$ y-intercept = 1

$3y = 3 - 1x$

$y = 1 - \frac{1}{3}x$

7) $4x + 9y = -9$ slope = $-4/9$ y-intercept = -1

$9y = -9 - 4x$

$y = -1 - \frac{4}{9}x$

8) $-5x + 2y = 6$ slope = $5/2$ y-intercept = 3

$2y = 6 + 5x$

$y = 3 + \frac{5}{2}x$

9) $-5x + 3y = -9$ slope = $5/3$ y-intercept = -3

$3y = -9 + 5x$

$y = -3 + \frac{5}{3}x$

10) $-x + 2y = 6$ slope = $1/2$ y-intercept = 3

$2y = 6 + 1x$

$y = 3 + \frac{1}{2}x$

/12

11. State the equation given slope and y-intercept

a) slope: 3, y-intercept: 7

b) slope: 1, y-intercept: -1

c) slope: $\frac{3}{4}$, y-intercept: $\frac{1}{2}$

d) slope: -4, y-intercept: 0

e) slope: 0, y-intercept: 4

(a) $y = 3x + 7$

(b) $y = 1x - 1$

(c) $y = \frac{3}{4}x + \frac{1}{2}$

(d) $y = -4x + 0$ or $y = -4x$

(e) $y = 0x + 4$ or $y = 4$

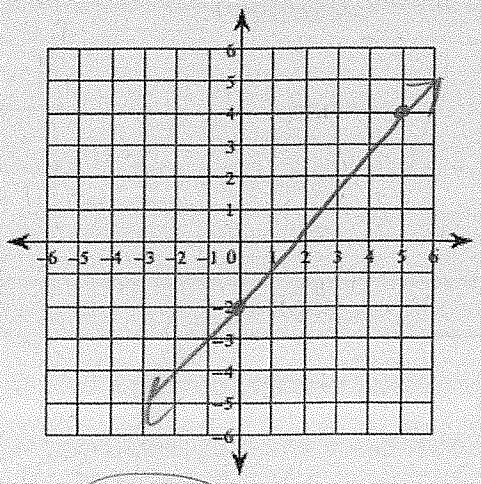
/5

21

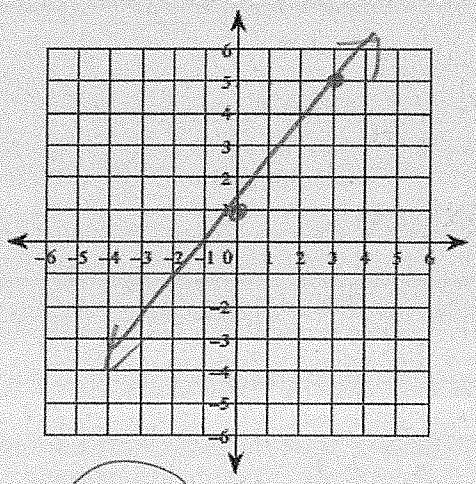
Graphing lines using Slope and Y-intercept

Sketch the graph of each line.

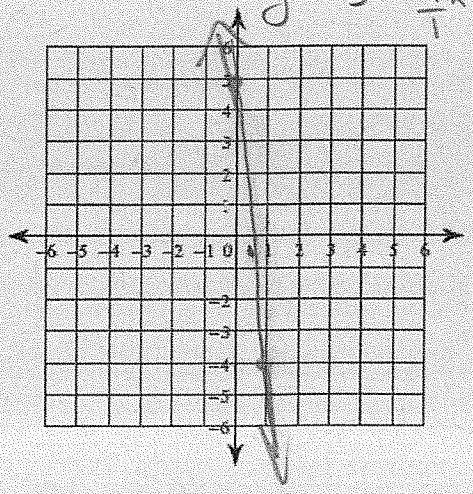
1) $y=\frac{6}{5}x-2$



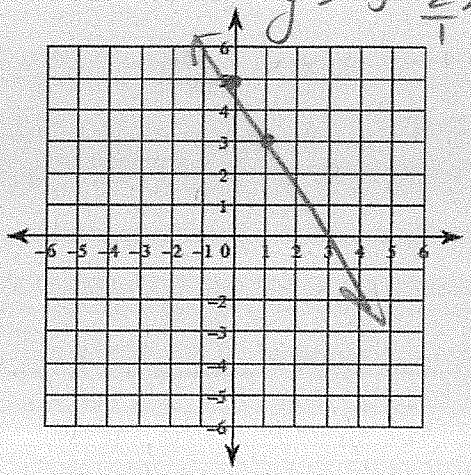
2) $y=\frac{4}{3}x+1$



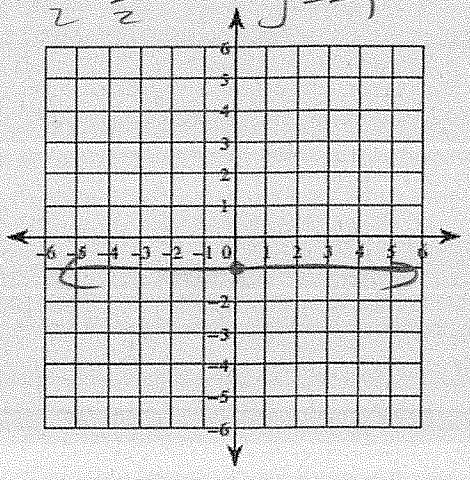
3) $9x+y=5$ $y=5-\frac{9}{1}x$



4) $2x+y=5$ $y=5-\frac{2}{1}x$



5) $2y=-2$ $y=-1$



6) $-y=x+2$ $y=-1x-2$